

WHAT IS CLAIMED IS:

1. An air circuit for a breast pump that produces bi-directional or intermittent air pressure and at least one express kit that requires either bi-directional or intermittent air pressure and unidirectional negative air pressure and vacuum, the express kit having a breast cup, a liner in the breast cup and a milk collection device, the liner and breast cup forming a pulsation chamber that receives the air pressure, the liner and breast forming a vacuum chamber that receives the vacuum, comprising:

an inlet for connection to the breast pump;

a first output producing a bi-directional or intermittent air pressure output for the pulsation chamber; and

a second output providing a unidirectional vacuum for the vacuum chamber.

2. The air circuit of claim 1, comprising a one-way valve that converts the air pressure of the pump into the vacuum of the second output.

3. The air circuit of claim 1, comprising a pressure release valve.

4. The air circuit of claim 1, comprising a vacuum adjustment valve.

5. The air circuit of claim 1, comprising a filter in the inlet, for preventing contamination.

6. The air circuit of claim 1, comprising a filter in the second output.

7. The air circuit of claim 1, comprising two express kits.